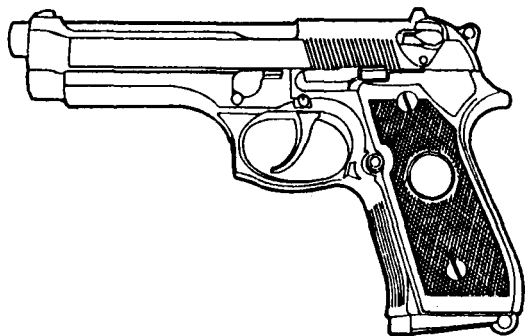


**ARMY TM 9-1005-317-23&P
NAVY SW 370-AA-MMO-010/9mm
AIR FORCE TO 11W3-3-5-4
MARINE CORPS TM 1005A-23&P/2
COAST GUARD COMDTINST M8370.7**

**TECHNICAL MANUAL
UNIT AND INTERMEDIATE DIRECT SUPPORT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)
PISTOL, SEMIAUTOMATIC, 9mm, M9
(1005-01-118-2640)**



INTRODUCTION	PAGE 1-1
UNIT MAINTENANCE INSTRUCTIONS	PAGE 2-1
INTERMEDIATE DIRECT SUPPORT MAINTENANCE INSTRUCTIONS	PAGE 3-1
REFERENCES	PAGE A-1
MAINTENANCE ALLOCATION CHART (MAC)	PAGE B-1
UNIT AND INTERMEDIATE DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)	PAGE C-1
EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST (ESML)	PAGE D-1
ALPHABETICAL INDEX	INDEX-1

This publication is required for official use or for administrative or operational purposes only. Distribution is limited to US Government agencies. Other requests for this document must be referred to Commander, US Army Armament, Munitions and Chemical Command, ATTN: AMSMC-MAS, Rock Island, IL 61299-6000.

**DEPARTMENTS OF THE ARMY, NAVY, AND AIR FORCE
HEADQUARTERS, MARINE CORPS
COMMANDANT, COAST GUARD**

JANUARY 1986

ARMY TM 9-1005-317-23&P
NAVY SW 370-AA-MMO-010/9mm
AIR FORCE TO 11W3-3-5-4
MARINE CORPS TM 1005-23&P/2
COAST GUARD COMDTINST M8370.7

WARNING

Read this manual carefully before performing required maintenance.

Before starting an inspection, and/or performing any maintenance procedures, be sure to clear the pistol. Do not squeeze trigger until the pistol has been cleared. Inspect the chamber to be sure that it is empty. Check to see that there are no obstructions in the barrel. Do not keep live ammunition near work/maintenance area.

Safety glasses, hearing protection, and protective clothing should be worn when repairing, firing, or cleaning the pistol.

Protective gloves should be worn when working with cleaning solvents.

For further information on safety, care, and handling of ammunition: Army users refer to TM 9-1005-317-10; Navy and Coast Guard users refer to OP 4 or OP 5.

Pistol will fire from the half cock position if the trigger is pulled.

Perform detail disassembly only to the level of maintenance required/authorized to identify and correct deficiencies.

A potential safety hazard exists if the firing pin block is missing or does not return flush with the slide surface after firing.

During removal of the lanyard loop spring pin, be sure the punch is left in place to prevent injury to personnel or accidental loss of parts.

Use care when removing recoil spring and spring guide. Because of the amount of compression, assembly will be released under spring tension and could cause possible injury to personnel, or become damaged or lost.

Cover the top of the trigger cavity to prevent ejection or loss of the trigger spring, or possible injury to personnel during removal of the trigger pin.

When applying pressure to the center/coil area of trigger spring, use care to prevent ejection of trigger spring as this could cause possible injury to personnel.

For further information on first aid, refer to FM 21-11.

ARMY TM 9-1005-317-23&P
NAVY SW 370-AA-MMO-010/9mm
AIR FORCE TO 11W3-3-5-4
MARINE CORPS TM 1005-23&P/2
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TECHNICAL MANUAL
ARMY NO. 9-1005-317-23&P
NAVY SW 370-AA-MMO-010/9mm
TECHNICAL ORDER
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TECHNICAL MANUAL
MARINE CORPS NO. 1005A-23&P/2
COAST GUARD COMDTINST M8370.7

DEPARTMENTS OF THE ARMY, NAVY,
AND AIR FORCE
HEADQUARTERS, MARINE CORPS
COMMANDANT, COAST GUARD

HEADQUARTERS, DEPARTMENT OF THE ARMY
WASHINGTON, DC, *31 January 1986*

UNIT AND INTERMEDIATE DIRECT SUPPORT MAINTENANCE MANUAL
(Including Repair Parts and Special Tools List)

for

PISTOL, SEMIAUTOMATIC, 9mm, M9
(1005-01-118-2640)

Current as of 27 January 1986 for Appendix C

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes, or if you know of a way to improve the procedures, please let us know.

Army users mail your letter, DA Form 2028 (Recommended Changes to Equipment Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, U.S. Army Armament, Munitions and Chemical Command, ATTN: AMSMC-MAS, Rock Island, IL 61299-6000.

Navy users submit Recommended Changes to Publications to: Commanding Officer, Naval Weapons Support Center, Code 20, Crane, IN 47522-5020.

Air Force users submit AFTO Form 22, Technical Order System Publications Improvement Report and Reply, to: WR-ALC/MMEDT, Robins AFB, GA 31098-5000.

Marine Corps users submit NAVMC 10772 Form to: Commanding General, Marine Corps Logistics Base (Code 850), Albany, GA 31704-5000.

Coast Guard users submit Publications Correction/Change Report form CG 4394 to: Commandant, U.S. Coast Guard (G-ODO-2), Washington, DC 20593.

A reply will be furnished to you.

TABLE OF CONTENTS

		Page	Illus/ Figure
	HOW TO USE THIS MANUAL	iii	
CHAPTER	1. INTRODUCTION	1-1	
Section	I. General Information	1-1	
Section	II. Equipment Description and Data	1-2	
Section	III. Principles of Operation	1-4	
CHAPTER	2. UNIT MAINTENANCE INSTRUCTIONS	2-1	
Section	I. Repair Parts, Special Tools, and Support Equipment	2-1	
Section	II. Service Upon Receipt	2-1	
Section	III. Unit Preventive Maintenance Checks and Services (PMCS)	2-4	
Section	IV. Troubleshooting	2-7	
Section	V. Unit Maintenance Procedures	2-15	
Section	VI. Preparation for Storage or Shipment	2-21	
CHAPTER	3. INTERMEDIATE DIRECT SUPPORT MAINTENANCE INSTRUCTIONS	3-1	
Section	I. Repair Parts, Special Tools, and Support Equipment	3-1	
Section	II. Service Upon Receipt	3-1	
Section	III. Troubleshooting	3-1	
Section	IV. Intermediate Direct Support Maintenance Procedures	3-8	
Section	V. Preparation for Storage or Shipment	3-36	
Section	VI. Preembarkation Inspection of Materiel in Units Alerted for Overseas Movement	3-36	
APPENDIX	A. REFERENCES	A-1	
APPENDIX	B. MAINTENANCE ALLOCATION CHART (MAC)	B-1	
Section	I. Introduction	B-1	
Section	II. Maintenance Allocation Chart	B-4	
Section	III. Tool and Test Equipment Requirements for M9 Pistol, 9mm	B-5	
APPENDIX	C. UNIT AND INTERMEDIATE DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST	C-1	
Section	I. Introduction	C-1	
Section	II. Repair Parts List	C-1-1	
Group	00 Pistol 9mm, M9	C-1-1	C-1
Group	01 Slide and Barrel Assembly	C-2-1	C-2
	0101 Barrel Assembly	C-3-1	C-3
	0102 Slide Assembly	C-4-1	C-4
	010201 Slide Assembly w/Rear Sight	C-5-1	C-5
Group	02 Receiver Assembly	C-6-1	C-6
Section	III. Special Tools List (not applicable)		
Section	IV. National Stock Number and Part Number Index	I-1	
APPENDIX	D. EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST	D-1	
Section	I. Introduction	D-1	
Section	II. Expendable/Durable Supplies and Materials List	D-2	
	ALPHABETICAL INDEX	Index-1	

HOW TO USE THIS MANUAL

GENERAL

In order to use this manual efficiently, there are several things you need to know.

1. You must familiarize yourself with the entire maintenance procedure before beginning the maintenance task.
2. All references in this manual are either to paragraphs, pages, or to another manual.
3. Whenever the male gender is mentioned in this manual, it also pertains to all joint service personnel.

INDEXES

This manual is organized to help you quickly find the information you need. There are several useful indexes.

1. **Front Cover Index.** Is a tabbed index of items used often. Keyed to tabbed pages in the manual.
2. **Table of Contents.** Lists in order all chapters, sections, and appendixes. Gives page references.
3. **Nomenclature Cross-Reference List.** Gives an alphabetical list of the common names that are substituted for the official nomenclature in the manual.
4. **Chapter Overviews.** Summarizes material covered in the chapter.
5. **Troubleshooting Symptom Index.** Lists in alphabetical order parts of the weapon with possible malfunctions. References pages of the troubleshooting table.
6. **Alphabetical Index.** Located at the end of the manual. An extensive subject index for everything in the manual. It gives page references.

MAINTENANCE PROCEDURES

There are two maintenance chapters:

Army personnel use chapter two for unit maintenance procedures and chapter three for intermediate direct support maintenance procedures.

Navy personnel use chapter two for organizational maintenance procedures and chapter three for intermediate maintenance procedures.

Air Force personnel: Only Air Force Specialty Code 753XX Combat Arms Training and Maintenance Specialists, Technicians, and Gunsmiths are authorized to perform maintenance procedures contained in this manual.

Marine Corps personnel use chapter two for organizational (2d echelon) maintenance procedures and chapter three for intermediate (3d echelon) maintenance procedures.

Coast Guard personnel refer to COMDTINST 8000.2.

MAINTENANCE PROCEDURES (cont)

Each maintenance chapter has an initial setup containing a list of the following things you will need in order to do your maintenance task:

1. **Tools and Special Tools.** For standard and special tools, see appendixes B and C.
2. **Materials/Parts.** Lists expendable materials and 100 percent replaceable parts. Each material or part is followed by a part number or appendix reference. If more than one part is needed, the quantity needed precedes the part number or reference.
3. **References.** Lists other publications containing necessary information.
4. **Equipment Condition.** Lists conditions to be met before starting the procedure.

Step-by-step procedures are illustrated procedures for maintenance authorized by the MAC, appendix B.

CHAPTER 1 INTRODUCTION

Chapter Overview

This chapter contains the following: General Information, Equipment Description and Data, and Principles of Operation for the pistol.

Section I. GENERAL INFORMATION

1-1. SCOPE.

a. **Type of Manual.** Unit and Intermediate Direct Support Maintenance Manual including Repair Parts and Special Tools List.

b. **Model Number and Equipment Name.** M9, 9mm, Semiautomatic Pistol.

c. **Purpose of Equipment:** Provides personal defense protection.

1-2. MAINTENANCE FORMS AND RECORDS.

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, The Army Maintenance Management System (TAMMS).

Navy and Coast Guard users refer to applicable Preventive Maintenance System Instructions.

Air Force users refer to TO 11W-1-10 and AFTO Form 105 for documenting weapon maintenance.

Marine Corps personnel refer to TM 4700-15/1 for equipment forms and record procedures.

1-3. DESTRUCTION OF MATERIEL TO PREVENT ENEMY USE.

Only your commanding officer can give the order to destroy materiel to prevent enemy use. Refer to TM 750-244-7.

1-4. NUCLEAR, BIOLOGICAL AND CHEMICAL (NBC).

General procedures can be found in FM 3-87, FM 21-40, and TM 3-220.

1-5. PREPARATION FOR STORAGE AND SHIPMENT.

Requirements for storage and shipment are listed in paragraph 2-15. Requirements for administrative storage will be in accordance with DOD 5100.76-M, Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives.

1-6. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIRs).

If your 9mm pistol needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance.

Army users submit an SF 368 (Quality Deficiency Report) and mail it to: Commander, U.S. Army Armament, Munitions and Chemical Command, ATTN: AMSMC-QAD, Rock Island, IL 61299-6000.

Navy users submit Quality Deficiency Report to: Commanding Officer, Naval Weapons Support Center, Code 20, Crane, IN 47522-5020.

Air Force users submit Material Deficiency Report (MDR) to: DIR MAT MGT ROBINS AFB GA//MMIRFT// and Quality Deficiency Report to: DIR MAT MGT ROBINS AFB GA//QAY//.

Marine Corps users submit QDRs on SF 368 in accordance with MCO 4855.10 to: Commanding General, Marine Corps Logistics Base (Code 840), Albany, GA 31704-5000.

Coast Guard users submit QDRs (SF 368) in accordance with COMDTINST M4855.1 to: Commandant, U.S. Coast Guard, (G-ODO-2), Washington, DC 20593.

We'll send you a reply.

1-7. NOMENCLATURE CROSS-REFERENCE LIST.

OFFICIAL

Magazine, Cartridge
Extractor
Slide Assembly
Magazine Catch Assembly
Cartridge
Safety
Screw, Machine
Spring, Helical, Torsion Slide Stop
Spring, Helical, Torsion Sear
Spring, Helical, Compression Main Spring
Pin, Straight, Headless Sear
Spring, Helical, Torsion Trigger
Pin, Straight, Headed Trigger

COMMON

Magazine
Extractor/Loaded Chamber Indicator
Slide
Magazine Release Button
Round
Ambidextrous Safety
Grip Screw
Slide Stop Spring
Sear Spring
Main Spring
Sear Pin
Trigger Spring
Trigger Pin

Section II. EQUIPMENT DESCRIPTION AND DATA

1-8. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

The M9 pistol is a semiautomatic, magazine fed, recoil operated, double action pistol, chambered for the 9mm cartridge.

WARNING

Pistol will fire from the half-cock position if the trigger is pulled.

a. Double Action. When a round is in the chamber with the safety on and the hammer down, double action allows the pistol to fire by placing the safety in the fire position and pulling the trigger.

b. Magazine. Has a 15 round capacity.

c. Extractor/Loaded Chamber Indicator. When there is a round in the chamber, the upper surface of

the extractor protrudes from the right side of the slide. In the dark, the protrusion can be felt by touch.

WARNING

A potential safety hazard exists if the firing pin block is missing or does not return flush with the slide surface after firing.

d. Firing Pin Block. When the trigger is not pulled, the firing pin block secures the firing pin and prevents it from moving forward, even if the pistol is dropped.

e. Ambidextrous Safety. Allows safe operation of the pistol by both right and left-handed users, and lowers the hammer without causing an accidental discharge. When the safety is in the up position, the pistol is ready to fire. When hammer is cocked, it may be safely lowered by moving the safety to the safe (down) position.

f. **Lanyard Loop.** Compatible with standard lanyards.

g. **Receiver.** The front and back straps of the grip are vertically grooved to ensure a firm grip even with wet hands, or under conditions of rapid combat fire. The trigger guard is extended, and the concave forward portion is grooved for a firm grip when using two hands or gloves.

h. **Disassembly Lever and Disassembly Button.** Allows for quick field stripping, and at the same time prevents accidental disassembly.

i. **Slide Stop.** Holds the slide to the rear after the last round is fired. It can also be manually operated.

1-9. WARRANTY INFORMATION. The M9, 9mm Pistol is warranted by Beretta U.S.A. Corporation for 18 months from date of government acceptance for conformance to performance requirements. Warranty starts on the acceptance date found on DD 250. Warranty start date is the same as the acceptance date on the DD 250 and is contained in columns 76-80 of

the weapons serial number control card. Submit all suspected warranty claims on SF 368 (QDR) to your appropriate command.

1-10. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.

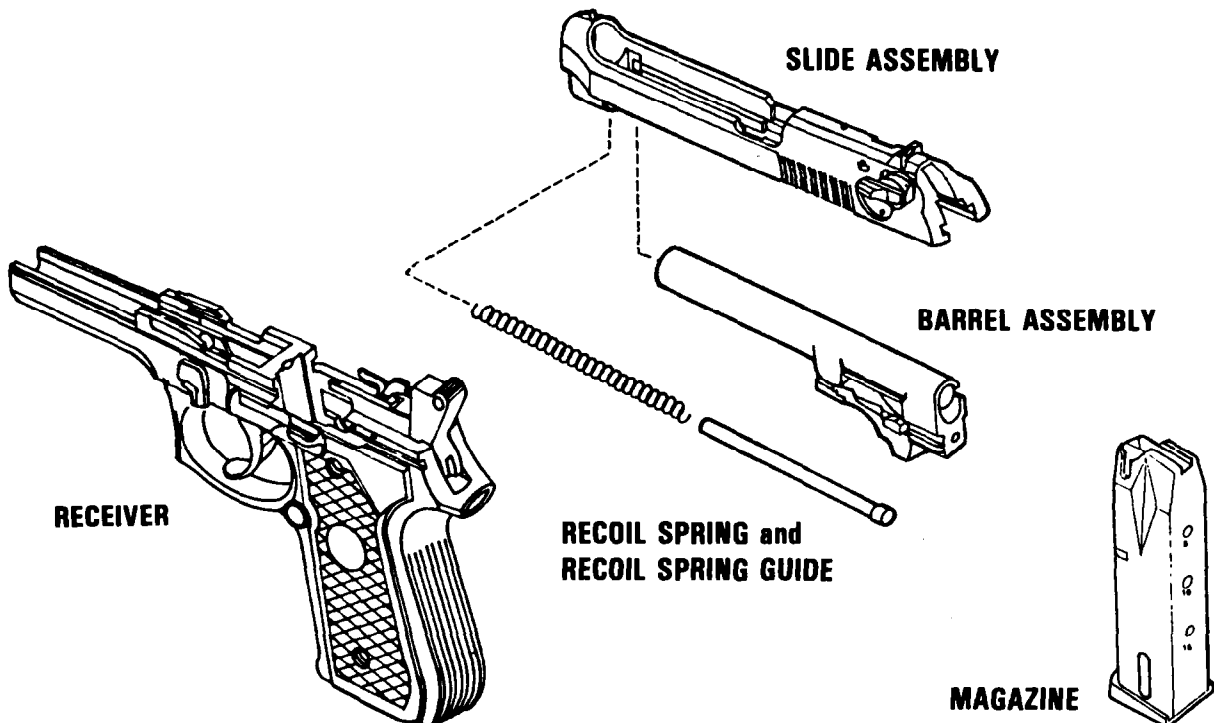
a. **Slide Assembly.** Houses the firing pin, striker, and extractor, and cocks hammer during recoil cycle.

b. **Barrel Assembly.** Houses cartridge for firing and directs projectile. Locking block locks barrel in position during firing.

c. **Recoil Spring and Recoil Spring Guide.** Absorbs recoil and returns the slide assembly to its forward position.

d. **Receiver.** Serves as a support for all major components. Controls action of pistol through the four major components.

e. **Magazine.** Holds 15 cartridges in place for feeding and chambering.



1-11. EQUIPMENT DATA.

Caliber	9 x 19mm (9mm NATO)
System of Operation	short recoil, semiautomatic
Locking system	falling locking block
Length	217mm (8.54 in.)
Width	38mm (1.50 in.)
Height	140mm (5.51 in.)
Weight (w/15 round magazine)	1145 gr (40.89 oz)
Weight (w/empty magazine)	960 gr (33.86 oz)
Barrel length	125mm (4.92 in.)
Rifling	R.H., 6 groove [pitch 250mm (approx 1 turn in 10 in.)]
Muzzle velocity	375 meters/sec (1230.3 ft/sec)
Muzzle energy	569.5 newton meters (420 ft lbs)
Maximum effective range	50 meters (54.7 yards)
Front Sight	blade, integral with slide
Rear Sight	notched bar, dovetailed to slide
Sight radius	158mm (6.22 in.)
Safety features	— ambidextrous safety — firing pin block
Hammer (half cock)	helps prevent accidental discharge
Magazine	staggered, 15 round capacity
Slide	held open upon firing of last round
Grips	plastic, checkered

1-12. SAFETY, CARE, AND HANDLING (AMMUNITION ONLY).

Publications for firing, handling, care and preservation or destruction of ammunition are AR 385-63, TM 43-0001-27, and TM 9-1005-317-10.

Navy and Coast Guard users refer to OP 4 and OP 5.

Shipping and Storage Data:		
Quantity	Distance Class	1
Storage	Comptability Group	B, E, or N
Storage	Code	Class V
DOT	Shipping Code	C
DOT	Designation	Small Arms Ammunition

Section III. PRINCIPLES OF OPERATION

1-13. GENERAL.

a. The M9 pistol has a short recoil system utilizing a falling locking block.

b. Upon firing, the pressure developed by the combustion gases recoils the slide and barrel assembly. After a short run, the locking block will stop the rearward movement of the barrel and release the slide

which will continue its rearward movement. The slide will then extract and eject the fired cartridge case, cock the hammer and compress the recoil spring. The slide moves forward under recoil spring pressure feeding the next round from the magazine into the chamber.

c. The slide stop holds the slide and barrel assembly open after the last round has been fired and ejected.